

MODULE 27105

FLOOR SYSTEMS

(27105 LESSON 5)

SLIDE PRESENTATION

SLIDE 41

7.0.0 Estimating the Quantity of Floor Materials

- Because the floor system carries the weight of the structure, it is important to select the correct materials and to order the correct quantities of those materials.

Note: The sample calculations in this section are based on *Figure 38*.

- The amount of sill sealer and termite shield is equal to the perimeter of the foundation.
- The quantity of girder material needed is determined by the type of girder and the length. If built-up girders are used, the total length must be multiplied by the number of laminations.
- The number of joists is determined by converting the length of the foundation to inches, then dividing by the joist spacing. One joist is added for the end and for each parallel partition.
- The joist header would be 2 times the foundation length.

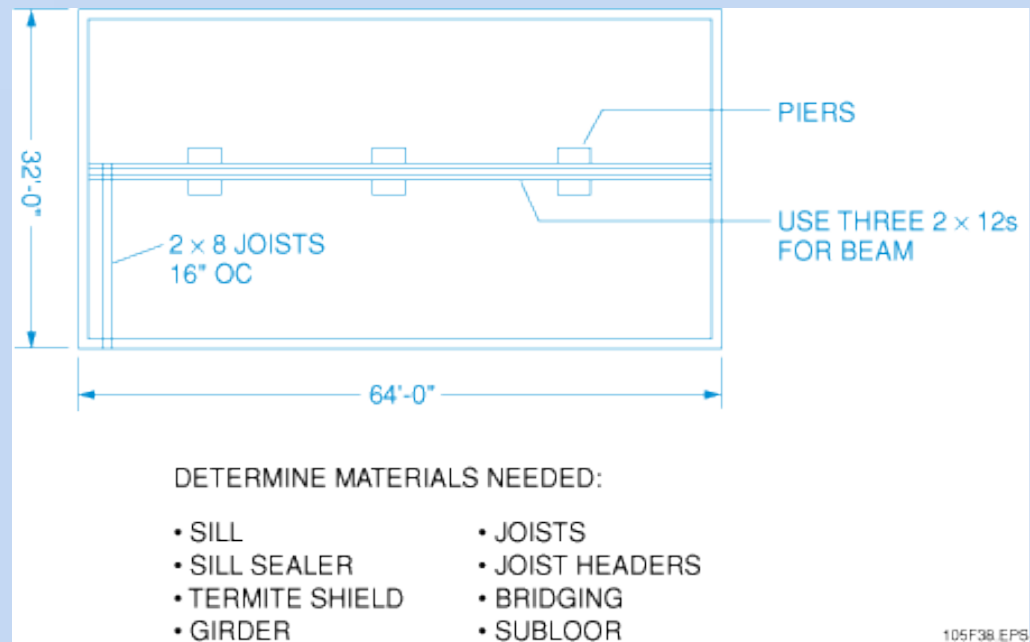


Figure 38 Determining floor system materials.

SLIDE 42

7.0.0 Estimating the Quantity of Floor Materials

- One row of bridging is required in spans over 8 feet, but less than 16 feet. Two rows are required for spans over 16 feet.
- Floor material is determined by dividing the area of the floor by 32, which is the number of square feet in a 4 × 8 panel, then rounding to the next higher whole number.

Table 2 Wood Cross Bridging Multiplication Factor

Joist Size	Spacing (Inches OC)	Lineal Feet of Material (per Foot of Bridging Row)
2 x 6, 2 x 8, 2 x 10	16	2
2 x 12	16	2.25
2 x 14	16	2.5



End of Presentation